

# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

PCB connector, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, connection method: Front screw connection, color: green, contact surface: Tin




The figure shows a 10-position version of the product

## Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Optimized for tight installation situations: operation and conductor connection from one direction
- ✓ Screwable flange for superior mechanical stability
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 039691
GTIN	4017918039691
Weight per Piece (excluding packing)	13.170 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Length [ l ]	27.2 mm
Width [ w ]	30.12 mm
Height [ h ]	15 mm
Pitch	5.08 mm

# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

## Technical data

### Dimensions

Dimension a	15.24 mm
-------------	----------

### General

Range of articles	FRONT-MSTB 2,5/...-STF
Number of positions	4
Connection method	Front screw connection
Insulating material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current	12 A
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A3
Stripping length	10 mm
Screw thread	M2,5
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Connection data

Conductor cross section solid min.	0.34 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1.5 mm <sup>2</sup>

## Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

### Technical data

#### Connection data

2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm <sup>2</sup>
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

#### Standards and Regulations

Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

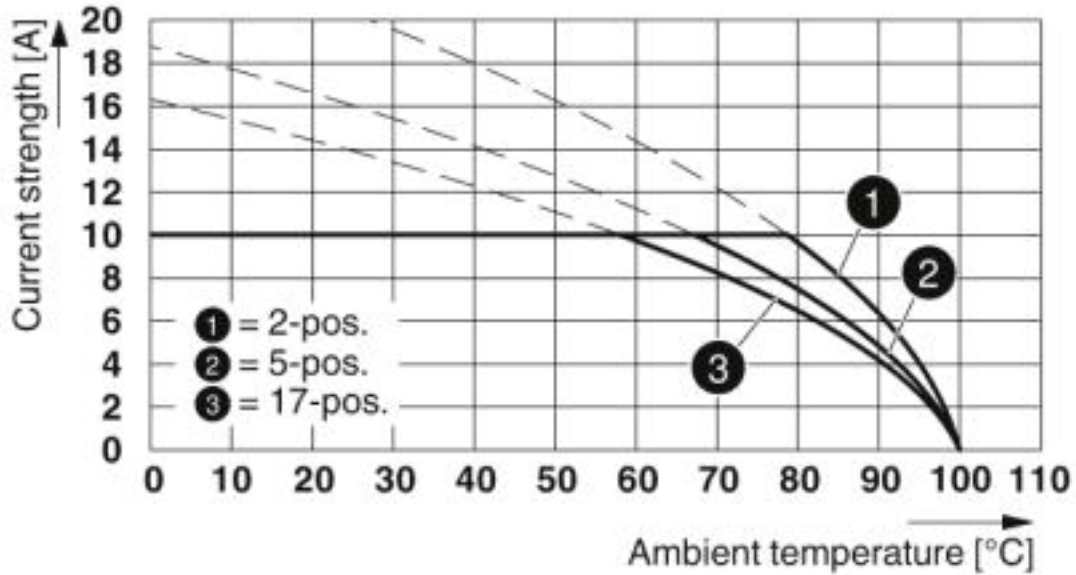
#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

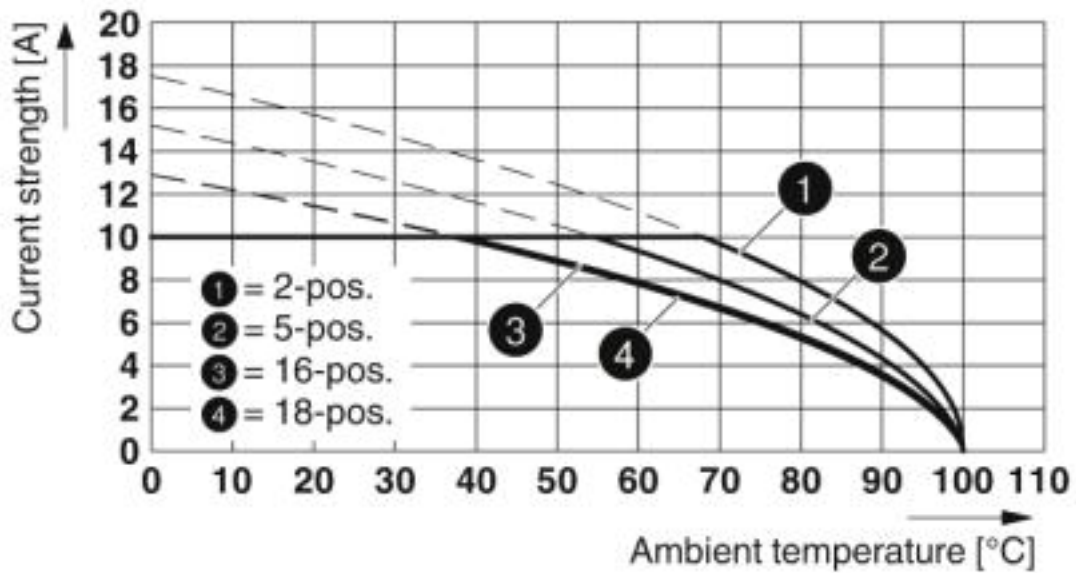
# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

Diagram



Type: FRONT-MSTB 2,5/...-STF-5,08 with MDSTB 2,5/...-GF-5,08

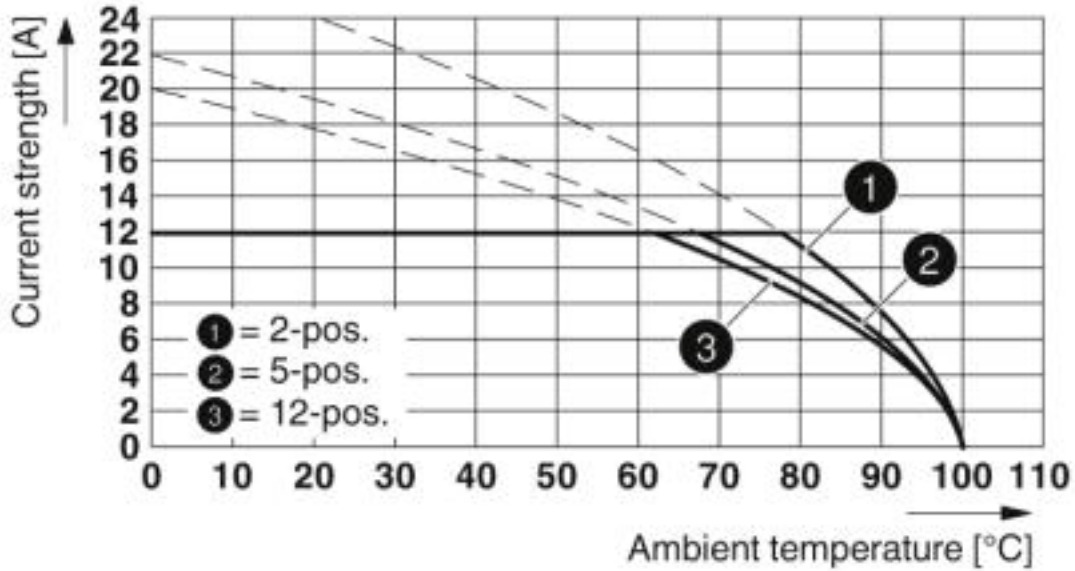
Diagram



Type: FRONT-MSTB 2,5/...-STF-5,08 with MDSTBV 2,5/...-GF-5,08

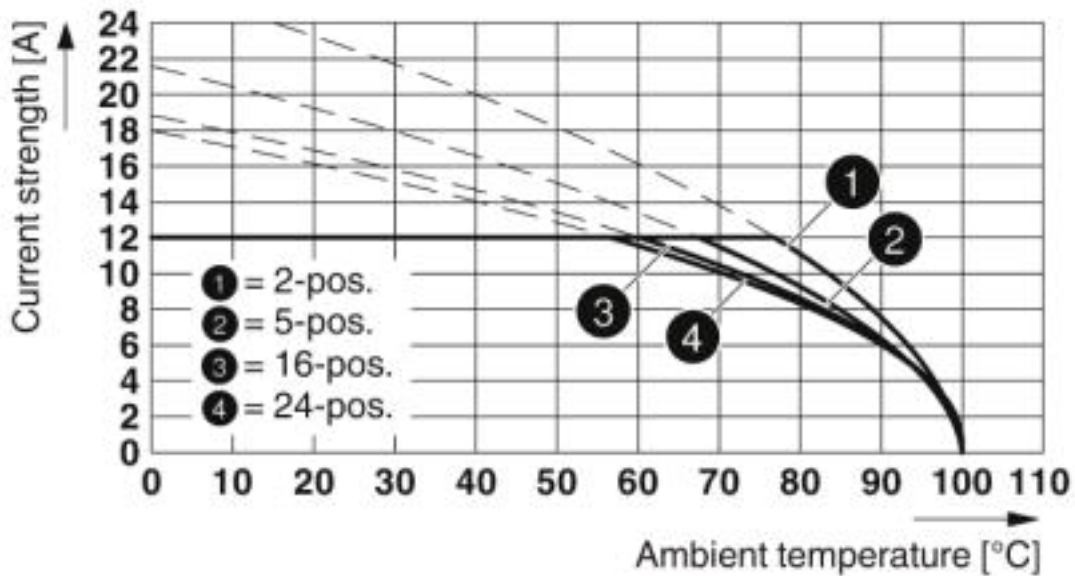
# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

Diagram



Type: FRONT-MSTB 2,5/...-STF-5,08 with CC 2,5/...-GF-5,08 P26THR

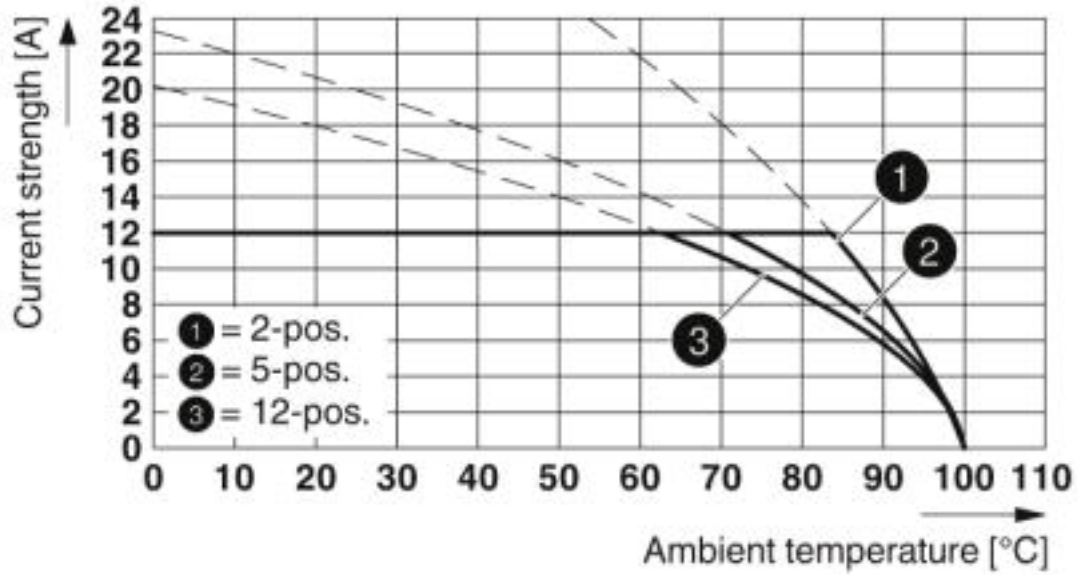
Diagram



Type: FRONT-MSTB 2,5/...-STF-5,08 with MSTB 2,5/...-GF-5,08

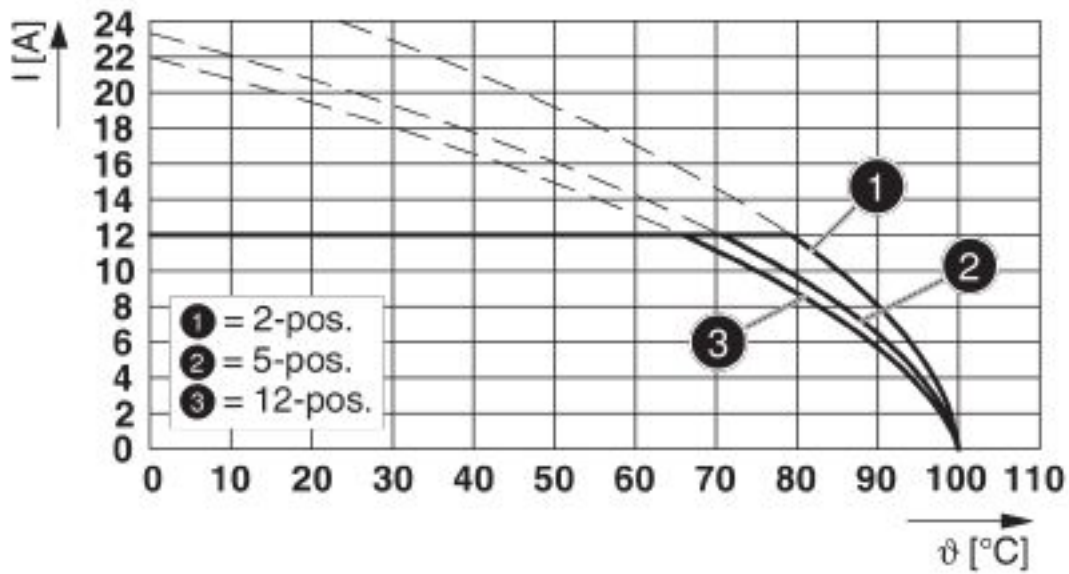
# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

Diagram



Type: FRONT-MSTB 2,5/...-STF-5,08 with CCV 2,5/...-GF-5,08 P26THR

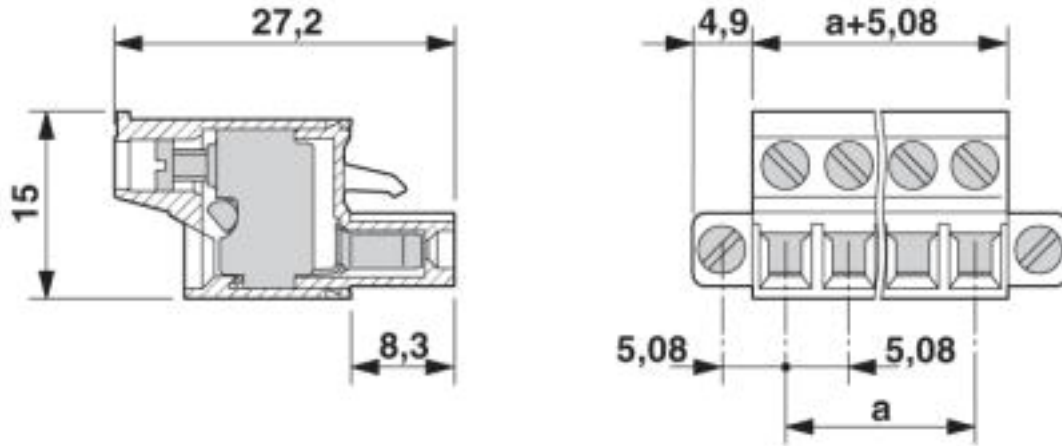
Diagram



Type: FRONT-MSTB 2,5/...-STF-5,08 with CC 2,5/...-GF-5,08-LR P...THR

# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

### UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

## Approvals

### Approvals


#### Approvals


DNV GL / CSA / IECIEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized


#### Ex Approvals

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE00001EY
--------	---	---	------------

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	15 A	10 A	
mm <sup>2</sup> /AWG/kcmil	22-12	22-12	

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-60988-B1B2
Nominal voltage UN	250 V		
Nominal current IN	12 A		
mm <sup>2</sup> /AWG/kcmil	0.34-2.5		

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40004701
Nominal voltage UN	250 V		
Nominal current IN	12 A		
mm <sup>2</sup> /AWG/kcmil	0.34-2.5		



# Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

## Approvals

EAC		B.01742
-----	--	---------

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-19931011
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	15 A	10 A	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	

## Accessories

### Accessories

### Assembly tool

Accessories - FRONT-MSTB-EW - 1763058



Removal aid, for FRONT-MSTB, facilitates extraction of several plugs mounted behind each other

---

### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

---

### Insertion bridge

## Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

### Accessories

Insertion bridge - EBL 2- 5 - 2303145

Insertion bridge, pitch: 5.2 mm, number of positions: 2, color: gray



Insertion bridge - EBL 3- 5 - 2303158

Insertion bridge, pitch: 5.2 mm, number of positions: 3, color: gray



Insertion bridge - EBL 4- 5 - 2303161

Insertion bridge, pitch: 5.2 mm, number of positions: 4, color: gray



### Labeled terminal marker

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293

Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 3.8 mm



### Marker pen

Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm



## Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

### Accessories

---

#### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

---

#### Terminal marking

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

---

#### Additional products

Feed-through header - MSTB 2,5/ 4-GF-5,08 - 1776524



PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

---

Printed-circuit board connector - MSTBV 2,5/ 4-GF-5,08 - 1777099



PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

---

## Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

### Accessories

#### Feed-through header - MDSTB 2,5/ 4-GF-5,08 - 1842380



PCB headers, nominal current: 10 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Feed-through header - MDSTBV 2,5/ 4-GF-5,08 - 1845659



PCB headers, nominal current: 10 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Printed-circuit board connector - DFK-MSTBA 2,5/ 4-GF-5,08 - 1899003



Feed-through header, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

#### Printed-circuit board connector - DFK-MSTBVA 2,5/ 4-GF-5,08 - 1899304



Feed-through header, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

#### Feed-through header - EMSTBV 2,5/ 4-GF-5,08 - 1915233



PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Press-in technology

## Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

### Accessories

#### Feed-through header - MSTB 2,5/ 4-GF-5,08 THT - 1927580



PCB headers, number of positions: 4, pitch: 5.08 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Feed-through header - MSTBV 2,5/ 4-GF-5,08 THT - 1940910



PCB headers, number of positions: 4, pitch: 5.08 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Printed-circuit board connector - CC 2,5/ 4-GF-5,08 P26THR - 1954715



PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Printed-circuit board connector - CC 2,5/ 4-GF-5,08 P26THRR56 - 1954825



PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Printed-circuit board connector - CCV 2,5/ 4-GF-5,08 P26THR - 1955659



PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

## Printed-circuit board connector - FRONT-MSTB 2,5/ 4-STF-5,08 - 1777824

### Accessories

Printed-circuit board connector - CCV 2,5/ 4-GF-5,08 P26THRR56 - 1955769

PCB headers, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

